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Sheet	1	of	5
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Complete if Known

Application Number	10/539,093
Filing Date	15 June 2005
First Named Inventor	John M. YANNI
Art Unit	1632
Examiner Name	
Attorney Docket Number	2394 US F

U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AS	A1	US- 3,991,759	11-16-1976	Urquhart	
↓	A2	US- 4,131,651	12-26-1978	Shah et al.	
	A3	US- 4,370,325	01-25-1983	Packman	
	A4	US- 4,409,205	10-11-1983	Shively	
	A5	US- 4,744,980	05-17-1988	Holly	
	A6	US- 4,753,945	06-28-1988	Gilbard et al.	
	A7	US- 4,818,537	04-04-1989	Guo	
	A8	US- 4,868,154	09-19-1989	Holly	
	A9	US- 4,914,088	04-03-1990	Glonek et al.	
	A10	US- 4,966,773	10-30-1990	Gressel et al.	
	A11	US- 5,041,434	08-20-1991	Lubkin	
	A12	US- 5,075,104	12-24-1991	Gressel et al.	
	A13	US- 5,174,988	12-29-1992	Mautone et al.	
	A14	US- 5,278,151	01-11-1994	Korb et al.	
	A15	US- 5,290,572	03-01-1994	MacKeen	
	A16	US- 5,294,607	03-15-1994	Glonek et al.	
↓	A17	US- 5,371,108	12-06-1994	Korb et al.	
	A18	US- 5,403,841	04-04-1995	Lang et al.	
AS	A19	US- 5,455,265	10-03-1995	Chandraratna	

FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
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	A20					
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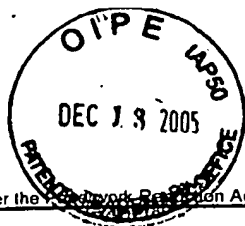
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Translation is attached.

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PTO/SB/08A (07-05)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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		Number-Kind Code ² (if known)			
AS ↓ ↓ ↓ ↓	AA	US- 5,578,586	11-26-1996	Glonck et al.	
	AB	US- 5,620,921	04-25-1997	Sullivan	
	AC	US- 5,620,921 C1	01-09-2001	Sullivan	
	AD	US- 5,696,166	12-09-1997	Yanni et al.	
	AE	US- 5,800,807	09-01-1998	Hu et al.	
AS	AF	US- 6,204,251	03-20-2001	Cuthbertson	
	AG	US- 4,883,658	11-28-1989	Holly	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

/Anoop Singh/

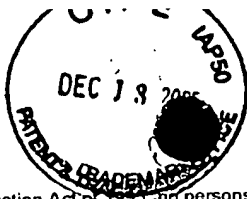
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Sheet	3	of	5	Attorney Docket Number	2394 US F

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AS	B1	BARABINO S and DANA MR (2004). Animal models of dry eye: a critical assessment of opportunities and limitations. 45(6): 1641-1646	
	B2	BEHRENS et al. (2002). Retroviral gene therapy vectors for prevention of excimer laser-induced corneal haze. IOVS 43(4): 968-977	
	B3	BRASH et al., "Discovery of a second 15S-lipoxygenase in humans", PROC. NATL. ACAD. SCI. USA 94:6148-6152 (1997)	
	B4	DARTT et. al., "Vasoactive Intestinal Peptide-Stimulated Glycoconjugate Secretion from Conjunctival Goblet Cells", EXPERIMENTAL EYE RESEARCH 63:27-33, (1996)	
	B5	DILLY et al., "Surface changes in the anaesthetic conjunctiva in man, with special reference to the production of mucus from a non-goblet-cell source", BRITISH JOURNAL OF OPHTHALMOLOGY 65:833-842 (1981).	
	B6	GREINER et al., "Mucus Secretory Vesicles in Conjunctival Epithelial Cells of Wearers of Contact Lenses", ARCHIVES OF OPHTHALMOLOGY 98:1843-1846 (1980)	
	B7	HSI et al., "Evaluation of the activity and localization of 15-Lipoxygenase-1 after introduction into human colorectal carcinoma Caco-2 cells", PROSTAGLANDINS, LEUKOTRIENES AND ESSENTIAL FATTY ACIDS 64 (4 & 5):217-225 (2001)	
	B8	HSI et al., "Opposing Effects of 15-Lipoxygenase-1 and -2 Metabolites on MAPK Signaling in Prostate", THE JOURNAL OF BIOLOGICAL CHEMISTRY 277(43):40549-40556 (2002)	
↓	B9	International Search Report for PCT/US03/33139 [#2394 WO F]	
AS	B10	KAMATA et al. (2001). Adenovirus-mediated gene therapy for corneal clouding in mice with mucopolysaccharidosis type VII. MOLECULAR THERAPY 4(4): 307-312	

Examiner Signature	/Anoop Singh/	Date Considered	01/02/2007
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PTO/SB/088 (08-03)

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Sheet	4	of	5	Attorney Docket Number	2394 US F

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AS	C1	LEMP, "Report of the National Eye Institute/Industry Workshop on Clinical Trials in Dry Eyes", The CLAO Journal, 21(4):221-232 (1995)	
	C2	LIMINGA et al (1994). Arachidonate 15-lipoxygenase in human corneal epithelium and 12- and 15-lipoxygenases in bovine corneal epithelium: comparison with other bovine 12-lipoxygenases. Biochim Biophys Acta. 1210(3): 288-296	
	C3	LIMINGA and OLIW, "Qualitative and Quantitative Analysis of Lipoxygenase Products in Bovine Corneal Epithelium by Liquid Chromatography-Mass Spectrometry with an Ion Trap", LIPIDS 35 (2):225-232 (2000)	
	C4	MAROM et al., "Human Airway Monohydroxyeicosatetraenoic Acid Generation and Mucus Release", JOURNAL OF CLINICAL INVESTIGATION 72:122-127 (1983)	
	C5	MARTIN et al. (2002). Gene delivery to the eye using adeno-associated viral vectors, METHODS 28 267-275	
	C6	MCCULLEY and SHINE, "Tear Film Structure and Dry Eye", Contactologia, 20(4):145-49 (1998)	
	C7	NAKMURA et. al., "Gefarnate Stimulates Secretion of Mucin-Like Glycoproteins by Corneal Epithelium in Vitro and Protects Corneal Epithelium from Desiccation in Vivo", EXPERIMENTAL EYE RESEARCH 65:569-574 (1997)	
	C8	PETERSON CM et al. (2002). Dry eye syndrome in postmenopausal women. JAMA 287(5): 585-586	
↓	C9	PFEIFER A and VERMA IM (2001). Gene Therapy: promises and problems. Annu Rev Genomics Hum Genet. 2: 177-211	
AS	C10	SHAPPELL et al., "15-Lipoxygenase-2 (15-LOX-2) Is Expressed in Benign Prostatic Epithelium and Reduced in Prostate Adenocarcinoma", AMER. J. PATH. 155(1):235-245 (1999)	

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AS	D1	SHAPPELL et al., "15-Lipoxygenase-2 Expression in Benign and Neoplastic Sebaceous Glands and Other Cutaneous Adnexa", J. INVESTIGATIVE DERMATOLOGY. 117(1):36-43 (2001)	
	D2	SHINE and MCCULLEY, "Keratoconjunctivitis Sicca Associated With Meibomian Secretion Polar Lipid Abnormality", ARCHIVES OF OPHTHALMOLOGY 116(7):849-52 (1998)	
	D3	STECHSCHULTE et al., "Rapid Ocular Angiogenic Control via Naked DNA Delivery to Cornea", INVEST. OPHTHALMOL. VIS. SCI. 42(9):1975-1979 (2001)	
	D4	VERMA, I. M. and SOMIA, N. (1997). Gene therapy-promises, problems and prospects. NATURE 389: 239-242	
↓	D5	WATANABE et al., "Human Corneal and Conjunctival Epithelia Produce a Mucin-like Glycoprotein for the Apical Surface", INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE 36(2):337-344 (1995)	
AS	D6	YANNI et al, "Effect of Intravenously Administered Lipoxygenase Metabolites on Rat Tracheal Mucous Gel Layer Thickness", INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY 90:307-309 (1989)	
	D7		
	D8		
	D9		
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